CLAIMS

We claim:

34. An apparatus for creating a structure comprising a plurality of cells of cured resinous material, the apparatus comprising:

a plurality of resin flow apertures arranged to permit cells formed at one aperture to contact cells formed at directly adjacent apertures; and

a resin flow control member arranged in each resin flow aperture and operable to control a flow of resin from the resin flow apertures.

35. The apparatus according to claim 34, further comprising:

a liquid injection port arranged in each resin flow aperture for injecting liquid into a cell of uncured resin flowing out of the resin flow aperture to inflate the cell; and

a liquid flow control member operable to control a flow of liquid through the port.

36. The apparatus according to claim 35, wherein the liquid comprises gas.

37. The apparatus according to claim 35, wherein the liquid comprises a fluid.

38. The apparatus according to claim 34, further comprising:

a forming plate that the resin flow apertures are formed through.

39. The apparatus according to claim 34, further comprising:

at least one cell-retaining member for retaining the cells after curing of the resinous material.

40. The apparatus according to claim 34, further comprising:

a source of energy for curing the uncured resin.

41. The apparatus according to claim 40, wherein the energy source comprises at least one of a source of ultraviolet radiation, a heat source, a source of visible light, an electron beam source, and a source of microwave radiation.

42. The apparatus according to claim 34, wherein the resin flow control member comprises a shutter valve.

43. The apparatus according to claim 34, wherein a position of the resin flow aperture is alterable.

44. The apparatus according to claim 34, wherein the apparatus form cells having a substantially uniform size